|             |          |               | Ir                                     | nd       | ex              | of       | CI       | air     | ns                  | Index of Claims                         |              |               |          |                 |           |                |                 |   |          |           |            |  |            |               | Reexamination |         |                 |          |          |                 |   |   |
|-------------|----------|---------------|--|----------|-----------------|----------|----------|---------|---------------------|---|--------------|---------------|----------|-----------------|-----------|----------------|-----------------|---|----------|-----------|------------|--|------------|---------------|---------------|---------|-----------------|----------|----------|-----------------|---|---|
|             |          |               |  |          |                 |          |          |         |                     |   |              |               |          | 10/534,003      |           |                |                 |   |          |           |            |  |            | MIYAKI ET AL. |               |         |                 |          |          |                 |   |   |
|             |          | Ш             |  | Ш        |                 | Ш        |          |         | Ш                   | Ш                                       | Ш            |               |          |                 |           | Examiner       |                 |   |          |           |            |  |            |               | Art Unit      |         |                 |          |          |                 |   | _ |
|             |          |               |  |          |                 |          |          |         |                     | Ш                                       |              | •             |          |                 | ١.        |                |                 |   |          |           |            |  |            |               |               |         |                 |          |          |                 |   |   |
|             |          |               |  |          |                 |          |          |         |                     |   |              |               |          |                 |           | Fred M. Teskin |                 |   |          |           |            |  |            |               | 1713          |         |                 |          |          |                 |   | _ |
| <del></del> |          |               |  |          |                 |          |          |         |                     |   |              |               |          |                 | r         |                |                 |   |          |           |            |  |            |               |               |         | ¬               |          |          |                 |   |   |
| •           |          |               | <b> </b>                               | Re       | Rejected        |          |          |         | _                   |   | (TI          | hrough numera |          |                 |           | al)            |                 | N                                       | No       | n-El      | lected     |  | ĺ          | A             | Appeal        |         |                 |          | ı        |                 |   |   |
|             |          |               | Ш                                      |          | -               |          |          |         | $\vdash \downarrow$ |   |              | Cancelled     |          |                 |           |                |                 | 14                                      |          |           |            |  |            |               | .,            |         |                 |          | _        |                 |   |   |
|             |          |               | =                                      | Allowed  |                 |          |          | ÷       |                     |   | Restricted   |               |          |                 |           |                |                 | Interferen                              |          | nce       |            | 0  | Objected   |               |               | -       |                 |          |          |                 |   |   |
|             | •        |               | Ш                                      |          |                 |          |          |         | $\square$           |   |              |               |          |                 |           |                |                 | للـــــــــــــــــــــــــــــــــــــ |          |           |            |  |            |               |               |         |                 |          |          |                 |   |   |
|             | Cir      | aim           | Г                                      |          | Date            |          |          |         |                     | _                                       | E            | Claim         |          |                 |           |                | Date            |   |          |           | CI         | aim  | 1          | Date          |               |         |                 |          |          |                 |   |   |
|             |          | $\overline{}$ |  | $\Box$   |                 |          |          | Т       | П                   | $\dashv$                                |              |               |          |                 | 1         | Τ'n            |                 | T                                       | Т        | Т         | <b>⊣</b>   |  |            | $\vdash$      | Т             | T       |                 | _        | 7        | Н               |   |   |
|             | Final    | Original      | Dop                                    |          |                 |          |          |         |                     |   |              | Final         | Original |                 | 1         |                |                 |   |          |           |            | Final  | Original   |               |               |         |                 |          |          |                 |   |   |
|             | ਛੋ       | Q.            | 0                                      |          |                 |          |          |         |                     |   |              | ίĒ            | P, P     |                 | -         |                |                 |   |          |           |            | i <u>Ē</u>                                       | Öriç       |               |               |         |                 |          |          |                 |   |   |
|             | -        | 1 \           | V                                      |          | $\dashv$        | +        | -        | ╀       | $\vdash$            |   | £            |               | 51       | $\dashv$        | +-        |                | _               | -                                       | +        | +-        |            |  | 101        | H             | +             | +       | $\vdash$        | -        | -        | Н               |   |   |
|             |          |               | V                                      |          | $\dashv$        | +        | +-       | +       | $\vdash$            | -                                       |              |               | 52       | -               | ╁         | +              | $\dashv$        | $\dashv$                                | +        | +         | 1          | <u> </u>   | 102        | Н             | +             | ╁       | $\vdash$        | +        | +        | $\vdash$        |   |   |
|             |          | 3 \           | 7                                      |          |                 |          |          |         |                     |   | +            |               | 53       |                 |           |                |                 |   | 1        |           |            |  | 103        |               |               |         | П               | 士        |          | П               |   |   |
|             |          | 4             | 7                                      |          | $\perp$         |          | $\perp$  | 1_      | Ш                   | _                                       | ė.           |               | 54       |                 | 1         |                |                 |   | 4        | $\perp$   |            |  | 104        | Ш             |               |         |                 | $\Box$   | $\perp$  | П               |   |   |
|             |          | 5 <b>6</b>    | 40                                     | $\dashv$ | -               | $\dashv$ | +-       | ╁       | -                   | $\dashv$                                |              |               | 55<br>56 |                 | +-        | +              |                 | $\dashv$                                | +        | +         | 34         |  | 105<br>106 | $\vdash$      | -             | +-      | H               | -        | +        | Н               |   |   |
|             |          | 7             | 0                                      |          | $\dashv$        | $\dashv$ | +        | ╁╌      | H                   | ╌╢                                      | *,4          |               | 57       |                 | +         | +              | +               | $\dashv$                                | $\dashv$ | +         |            | $\vdash$   | 107        | $\vdash$      | +             | +       | ╁╅              | ╁        | ╁        | $\vdash$        |   |   |
|             |          | 8             | 0                                      |          |                 | 1        | 1        |         | Ħ                   |   |              |               | 58       |                 | $\top$    | T              |                 | $\neg$                                  | 7        |           | 4          |  | 108        |               |               | 1       | $\Box$          |          | ╅        | Н               |   |   |
|             |          | 9             | V                                      |          | $\Box$          | $\perp$  | $\perp$  | L       | П                   |   | · ·          |               | 59       | $\perp$         | I         | $\perp$        | $\Box$          | $\Box$                                  | $\perp$  | 工         | · .        |  | 109        |               |               |         | П               | $\Box$   |          |                 |   |   |
|             | <u> </u> | 10            | 11                                     | Н        | -               | -        |          | -       | Н                   | _                                       | Let by       |               | 60<br>61 | -               | _         | $\vdash$       | $\dashv$        | -                                       | -        | ╀         | 1          | <u> </u>   | 110<br>111 | $\sqcup$      | _             | $\bot$  | $\vdash$        | 4        | +        | $\vdash$        |   |   |
|             | -        | 11<br>12      | Н                                      | Н        | $\dashv$        | ┽        | ╁        | ╁╴      | $\vdash$            | -                                       | *            |               | 62       |                 | +         | +              | $\dashv$        | ┥                                       | +        | ╁         |            | <u> </u>   | 112        | $\vdash$      | +             | +-      | $\vdash$        | +        | +        | $\vdash$        |   |   |
|             |          | 13            | Н                                      | Н        |                 | 十        | ╁        | $\top$  | Н                   | ٦                                       | Juk          |               | 63       | $\dashv$        | ╁         | $\top$         | $\dashv$        | $\dashv$                                | 十        | +         |            |  | 113        | $\vdash$      |               | $\top$  | $\vdash$        | $\dashv$ | +        | $\vdash$        |   |   |
|             |          | 14            |  |          |                 |          |          |         |                     |   |              |               | 64       |                 |           |                |                 | $\Box$                                  |          |           |            |  | 114        |               |               |         |                 |          |          |                 |   |   |
|             |          | 15\           | $\prod$                                |          |                 |          | $\perp$  |         | Ш                   |   | 3.5          |               | 65       |                 | $\perp$   |                |                 |   |          |           | ٠,,        |  | 115        |               |               |         | Ш               |          |          |                 |   |   |
|             | ┿        |               | M                                      |          | $\dashv$        | +        | ╀        | ╀       | $\vdash \vdash$     |   |              |               | 66<br>67 |                 | +         | $\vdash$       | Н               | $\dashv$                                | _        | +         |            |  | 116        |               |               | -       | ┦               | $\dashv$ |          | $\vdash$        |   |   |
|             | -        | 17<br>18      |  | $\vdash$ | ++++            | ╁        | $\vdash$ | _       | × 1                 |   | 68           |               | +        | +               | $\vdash$  | $\dashv$       | $\dashv$        | +                                       | 1        | -         | 117<br>118 | Н  | +          | +             | $\vdash$      | +       |                 | $\vdash$ |          |                 |   |   |
|             | -        | 19            | H                                      |          |                 | +        | +        | +       | Н                   | _                                       | 1 12         |               | 69       | $\top$          | +         | +              | $\vdash$        | $\dashv$                                | +        | +         |            |  | 119        | $\vdash$      | $\dashv$      | +       | H               | $\dashv$ |          | Н               |   |   |
| •           |          | 20            |  |          |                 |          |          |         |                     |   |              |               | 70       |                 |           |                |                 |   |          |           | 2.1        |  | 120        |               |               |         |                 |          |          |                 |   |   |
|             |          | 21            |  | Ш        | Ц               | 4        |          | _       |                     |   |              |               | 71       |                 | 4         | $\bot$         | _               | _                                       |          | _         |            |  | 121        | Ш             | _             |         | Ш               | 4        |          | Ш               |   |   |
|             | <b>├</b> | 22            | ⊢                                      | Н        | $\dashv$        |          | +        | ╀       | $\vdash$            |   | 3            |               | 72<br>73 | $\dashv$        | +         | ╀              | Н               | $\dashv$                                | +        | +         | -          | <u> </u>   | 122<br>123 | Н             | -             | +       |                 | $\dashv$ | -        | Н               |   |   |
|             |          | 24            | -                                      | Н        | -               | +        | +-       | +       | $\vdash$            | -                                       |              |               | 74       | +               | +         | ╁              | $\vdash$        | -                                       | -        | +         |            |  | 123        | $\vdash$      | +             | +       | $\vdash$        | $\dashv$ |          | Н               |   |   |
|             |          | 25            | $\vdash$                               | Н        |                 | ┪        | ╁        | T       | $\vdash$            |   |              |               | 75       | $\vdash$        | $\dagger$ | ╁              | П               |   | 7        | $\dagger$ | 1          |  | 125        | Н             | +             | $\top$  | H               | $\dashv$ | 十        | Ħ               |   |   |
|             |          | 26            |  |          |                 |          |          |         |                     |   | 7            |               | 76       |                 | 工         |                |                 |   |          |           |            |  | 126        |               |               |         | П               |          |          |                 |   |   |
|             |          | 27            |  | Ш        |                 |          |          | 1       |                     |   | 5            |               | 77       |                 | _         |                | Ш               | _                                       | _        | _         |            |  | 127        |               | _ _           |         | Ш               | _        |          |                 |   |   |
|             | -        | 28<br>29      |  | H        | $\dot{+}$       | +        |          | ╁       | Н                   |   |              | <u> </u>      | 78<br>79 | $\rightarrow$   | +         | +              | $\vdash$        | -                                       | +        | +         | 1.         |  | 128<br>129 | $\vdash$      | +             | ┿       | ╁┥              | +        | +        | $\vdash$        |   |   |
|             | -        | 30            |  | Н        | $\dashv$        | +        | -        | ╁       | Н                   | _                                       |              |               | 80       |                 | +         | +              | $\vdash$        | $\dashv$                                | +        | ╁         |            |  | 130        | $\vdash$      | ┿             | ╁       | $\vdash$        | -        | +        | $\vdash$        |   |   |
|             |          | 31            |  |          | $\sqcap$        | 7        |          | ╁       | H                   |   | *            |               | 81       |                 | $\top$    | $\top$         | $\Box$          |   | $\top$   | $\top$    |            |  | 131        | П             | 十             | -       | $\Box$          | 7        |          | Н               |   |   |
|             |          | 32            |  |          |                 | $\Box$   |          |         |                     |   | 1 °<br>1 • 6 |               | 82       |                 |           |                |                 |   |          |           | ]          |  | 132        |               |               |         |                 |          |          |                 |   |   |
|             | <u> </u> | 33            | $oldsymbol{oldsymbol{oldsymbol{eta}}}$ |          | Н               | 4        | _        | ↓_      | Н                   |   | -            |               | 83       |                 | $\perp$   | ↓_             | $\sqcup$        |   | $\perp$  | $\perp$   | ľ          | <u> </u>   | 133        | Ш             | 4             | -       | $\sqcup$        | 4        |          | Ш               |   | • |
|             |          | 34<br>35      | -                                      | Н        | $\dashv$        | +        | +        | +-      | $\vdash$            |   |              |               | 84<br>85 | -               | +         | +              | Н               |   | +        | +         | . ,        | -  | 134<br>135 | Н             | -             | +       | $\vdash$        | -        |          | Н               | , |   |
|             |          | 36            | $\vdash$                               | $\vdash$ | $\dashv$        | +        | +        | +       | ╁╌┤                 | _                                       |              |               | 86       | +               | +         | +              | H               | $\dashv$                                | +        | ╁╌        | ┨          |  | 136        | $\vdash$      | +             | +       | $\vdash$        | $\dashv$ | $\dashv$ | $\vdash \vdash$ |   |   |
|             |          | 37            | T                                      |          | $\dashv$        | 十        | _        | $\top$  | П                   |   |              |               | 87       | $\vdash$        | _         | $\dagger$      | Н               | $\Box$                                  | $\top$   | +         | -          |  | 137        | H             |               | †       | $\Box$          | 十        | +        | Н               |   |   |
|             |          | 38            |  |          |                 |          |          |         |                     |   | ļ. I         |               | 88       |                 |           |                |                 |   |          |           | ]          |  | 138        |               |               |         |                 |          |          |                 | • |   |
|             |          | 39            | <u> </u>                               | Ц        | $\sqcup$        | 4        |          |         | $\sqcup$            |   | 1            | _             | 89       | $\sqcup$        | 1         | $\perp$        | $\square$       |   | $\perp$  | 1         | 1          | <u> </u>   | 139        | $\sqcup$      | _             | $\perp$ | $\sqcup$        | _        | $\perp$  | $\sqcup$        |   |   |
|             |          | 40            | $\vdash$                               | Н        | $\dashv$        | +        | +        | +-      | $\vdash$            |   | ÷            | ļ             | 90<br>91 | $\vdash$        | +         | ╁              | $\vdash \vdash$ | $\dashv$                                | +        | +-        |            | <del> </del>                                     | 140<br>141 | ╀┤            | +             | +       | ╁┤              | $\dashv$ | +        | $\vdash\vdash$  |   |   |
|             | -        | 41            | $\vdash$                               | $\vdash$ | $\vdash \vdash$ | +        | +        | +       | $\vdash$            |   | A.           | <del> </del>  | 92       | +               | +         | +-             | $\vdash \vdash$ | $\vdash$                                | +        | +         | 1          | <del>                                     </del> | 141        | Н             | $\dashv$      | +       | $\vdash \vdash$ | +        | +        | $\vdash$        |   |   |
|             |          | 43            | T                                      | H        | $\forall$       | $\top$   | +        | +-      | $\Box$              |   | 1            |               | 93       | $\vdash$        | +         | †              | $\vdash$        |   | 十        | †         | 1          |  | 143        | ${\sf T}$     | $\top$        | $\top$  | +               | $\dashv$ | _        | Н               |   |   |
|             |          | 44            |  |          |                 | $\Box$   |          |         | П                   |   |              |               | 94       |                 |           | $oxed{\Box}$   |                 |   | $\Box$   |           | ]          |  | 144        |               |               | 1       | Ш               |          |          | $\Box$          |   |   |
|             | <u> </u> | 45            | $\vdash$                               | Ц        | $\dashv$        | $\dashv$ | - -      | $\perp$ | Н                   |   |              | <u> </u>      | 95       | $\vdash \vdash$ | 4         | +              | dash            | $\sqcup$                                | 4        | -         | -          |  | 145        | $\square$     | $\perp$       | 4       | $\sqcup$        | -        | - -      | $\sqcup$        | • |   |
|             | -        | 46<br>47      | $\vdash$                               | H        | $\vdash \vdash$ | +        | +        | +       | $\vdash$            |   |              |               | 96<br>97 | -               | +         | +              | $\vdash \vdash$ | $\vdash$                                | +        | +         | 1          | <u> </u>   | 146<br>147 | $\vdash$      | +             | +-      | ╂╌┤             | $\dashv$ | +        | $\vdash$        | ٠ |   |
|             | -        | 48            | $\vdash$                               | Н        | $\vdash \vdash$ | +        | +        | +       | $\vdash \vdash$     |   | 9            | $\vdash$      | 98       | +               | ╫         | +              | $\vdash \vdash$ | $\dashv$                                | $\dashv$ | +         | 1          | $\vdash$   | 148        | $\vdash$      | +             | +       | ╁┤              | $\dashv$ | +        | $\vdash$        |   |   |
|             |          |               |  |          |                 | _        |          |         | اسا                 | لــــــــــــــــــــــــــــــــــــــ |              |               |          |                 |           |                | 1               |   |          |           | J          |  |            |               |               | 1_      | 1!              |          |          |                 | i |   |

Application/Control No.

Applicant(s)/Patent under